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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A non-contact position sensor comprising:
 - a slider having a magnet;
 - a stator consisting of a magnetic body having an area in which the slider enters allowing the slider to move while keeping a predetermined clearance;
 - a magnetically-sensitive sensor provided in the stator to detect a position of the slider corresponding to a percentage of the magnet entering the area; and
 - a magnetic flux leakproof member for preventing magnetic flux, which is generated in a part of the magnet that does not enter the area, from leaking out to the stator.
2. (Currently Amended) A non-contact position sensor comprising:
 - a slider having a magnet having its front and back faces whose polarities are different from each other;
 - a stator consisting of a magnetic body having a pair of opposed walls forming an area in which the slider enters allowing the slider to move while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet;
 - a magnetically-sensitive sensor provided in the stator to detect a position of the slider corresponding to a percentage of the magnet entering the area; and
 - a magnetic flux leakproof member for preventing magnetic flux, which is generated in a part of the magnet that does not enter the area, from leaking out to the stator.
3. (Original) The non-contact position sensor of claim 1 or 2, wherein
 - the magnetic flux leakproof member is formed by a magnetic body allowing a passage of the magnetic flux generated in a part of the magnet that does not enter the area.
4. (Currently Amended) A non-contact position sensor comprising:

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a slider having a magnet having its front and back faces whose polarities are different from each other;

a main stator consisting of a magnetic body having a pair of opposed walls forming an area in which the slider enters ~~allowing the slider to move while~~ keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, and a first gap continuing into the opposed walls;

a magnetically-sensitive sensor arranged in the first gap to detect a position of the slider corresponding to a percentage of the magnet entering the area; and

an assist stator for preventing magnetic flux, which is generated in a part of the magnet that does not enter the area, from leaking out to the main stator.

5. (Original) The non-contact position sensor of claim 4, wherein

the assist stator has a pair of opposed walls corresponding to front and back faces of the part of the magnet that does not enter the area.

6. (Currently Amended) The non-contact position sensor of claim 4, wherein

the assist stator has a pair of opposed walls corresponding to front and back faces of the part of the magnet that does not enter the area and a second gap continuing into the opposed walls.

7. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having its front and back faces whose polarities are different from each other;

a main stator consisting of a magnetic body having a pair of opposed walls forming a first area in which the slider enters ~~allowing the slider to move while~~ keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, and a first gap continuing into the opposed walls;

an assist stator arranged at a second gap ~~extending along~~ intersecting with a moving direction of the slider from the main stator, the assist stator consisting of a magnetic body having a pair of opposed walls forming a second area allowing the slider to move while keeping a

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predetermined clearance; and

a magnetically-sensitive sensor arranged in the first gap of the main stator to detect a position of the slider corresponding to a percentage of the magnet entering the first area of the main stator.

8. (Original) The non-contact position sensor of claim 7, wherein

the opposed walls of the assist stator are connected with each other integrally.

9. (Currently Amended) The non-contact position sensor of claim 7, wherein

the assist stator is partitioned through ~~the~~ a third gap continuing into the opposed walls.

10. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having its front and back faces whose polarities are different from each other;

a main stator consisting of a magnetic body having a pair of opposed walls forming a first area in which the slider enters ~~allowing the slider to move while~~ keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, and a pair of transverse walls formed to extend from the opposed walls and arranged close to each other through a uniform gap along a moving direction of the slider;

an assist stator arranged at a ~~gap extending along~~ intersecting with the moving direction of the slider from the main stator, the assist stator consisting of a magnetic body having a pair of opposed walls forming a second area allowing the slider to move while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet; and

a magnetically-sensitive sensor arranged in an optional position in the uniform gap of the main stator to detect a position of the slider corresponding to a percentage of the magnet entering the first area of the main stator.

11. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having its front and back faces whose polarities are different from each other;

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a main stator consisting of a magnetic body having a pair of opposed walls forming a first area in which the slider enters ~~allowing the slider to move~~ while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, and a transverse arm formed to extend from one of the opposed walls and arranged close to the other of the opposed walls through a uniform gap along a moving direction of the slider;

an assist stator arranged at a gap ~~extending along~~ intersecting with the moving direction of the slider from the main stator, the assist stator consisting of a magnetic body having a pair of opposed walls forming a second area allowing the slider to move while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet; and

a magnetically-sensitive sensor arranged in an optional position in the uniform gap of the main stator to detect a position of the slider corresponding to a percentage of the magnet entering the first area of the main stator.

12. (Currently Amended) A non-contact position sensor comprising:

a slider having a magnet having its front and back faces whose polarities are different from each other;

a main stator consisting of a magnetic body having a pair of opposed walls forming a first area in which the slider enters ~~allowing the slider to move~~ while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet, a first arm formed to extend from one of the opposed walls and arranged close to the other of the opposed walls through a uniform gap along a moving direction of the slider and a second arm formed to extend from the other of the opposed walls and arranged close to the one of the opposed walls through a uniform gap along a moving direction of the slider;

an assist stator arranged at a gap ~~extending along~~ intersecting with the moving direction of the slider from the main stator, the assist stator consisting of a magnetic body having a pair of opposed walls forming a second area allowing the slider to move while keeping a predetermined clearance, the opposed walls corresponding to the front and back faces of the magnet; and

a magnetically-sensitive sensor arranged in an optional position in the gap between the first arm and the other of the opposed walls to detect a position of the slider corresponding to a percentage of the magnet entering the first area of the main stator.

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13. (Currently Amended) The non-contact position sensor of claim 10 or 11, wherein
the magnetically-sensitive sensor is arranged at a midpoint between both ends of the
uniform gap of the main stator.

14. (Currently Amended) The non-contact position sensor of claim 12, wherein
the magnetically-sensitive sensor is arranged in the uniform gap of the first arm and in a
position close to a midpoint between both ends of the main stator.

15. (Original) The non-contact position sensor of any one of claims 10, 11 and 12, wherein
the assist stator is an integral-type element where the opposed walls are connected with
each other through a transverse wall integrally.

16. (Currently Amended) The non-contact position sensor of any one of claims 10, 11 and 12,
wherein
the assist stator is a separation-type element where transverse walls extending from the
opposed walls are separated from each other through a second uniform gap throughout both ends
of each of the transverse wall along a moving direction of the slider.

17. (Currently Amended) A non-contact position sensor comprising:
a slider consisting of a pair of magnets whose side edges along a moving direction of the
slider are joined to each other and each of which has front and back faces whose polarities are
different from each other and an armature provided on one side face of the pair of magnets;
a main stator consisting of a magnetic body arranged in a position opposing the other side
face of the pair of magnets;
a magnetically-sensitive sensor provided in the main stator to detect a position of the
slider corresponding to a percentage of the magnets entering an area where the slider opposes the
main stator; and
an assist stator consisting of a magnetic body for preventing magnetic flux, which is
generated in parts of the magnets that do not enter the area, from leaking out to the main stator.

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wherein the main stator and the assist stator are arranged at a same side of the slider.

18. (Original) The non-contact position sensor of claim 17, wherein

magnetic flux generated in parts of the magnets that do not enter the main stator forms a loop in the assist stator.